

59419-010102.ST25.txt
SEQUENCE LISTING

<110> NG, Mary Mah Lee
Chu, Justin Jang Hann

<120> Molecules, Compositions, Methods and Kits For Applications
Associated With Flaviviruses

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<141> 2004-01-29

<150> US 60/442,157
<151> 2003-01-22

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Val Arg Pro Pro Gln Glu Glu Gln Glu Arg Glu Gln Leu Gln Pro
1025 1030 1035

His Glu Asn Gly Glu Gly Asn Ser Glu Thr
1040 1045

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1 5 10 15

ctg ggg gcg ctg gcg ggc gtt ggc gta gga ggg ccc aac atc tgt acc 96
Leu Gly Ala Leu Ala Gly Val Gly Val Gly Gly Pro Asn Ile Cys Thr
20 25 30

acg cga ggt gtg agc tcc tgc cag cag tgc ctg gct gtg agc ccc atg 144

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Thr	Arg	Gly 35	Val	Ser	Ser	Cys	Gln 40	Gln	Cys	Leu	Ala	Val 45	Ser	Pro	Met	
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gac Asp 65	ctg Leu	aag Lys	gag Glu	aat Asn	ctg Leu 70	ctg Leu	aag Lys	gat Asp	aac Asn	tgt Cys 75	gcc Ala	cca Pro	gaa Glu	tcc Ser	atc Ile 80	240
gag Glu	ttc Phe	cca Pro	gtg Val	agt Ser 85	gag Glu	gcc Ala	cga Arg	gta Val	cta Leu 90	gag Glu	gac Asp	agg Arg	ccc Pro	ctc Leu 95	agc Ser	288
gac Asp	aag Lys	ggc Gly 100	tct Ser	gga Gly	gac Asp	agc Ser	tcc Ser	cag Gln 105	gtc Val	act Thr	caa Gln	gtc Val	agt Ser 110	ccc Pro	cag Gln	336
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 35 40 45

Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro Leu Gly Ser Pro Arg Cys
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Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn Cys Ala Pro Glu Ser Ile
 65 70 75 80

Glu Phe Pro Val Ser Glu Ala Arg Val Leu Glu Asp Arg Pro Leu Ser
 85 90 95

Asp Lys Gly Ser Gly Asp Ser Ser Gln Val Thr Gln Val Ser Pro Gln
 100 105 110

Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp Ser Lys Asn Phe Ser Ile
 115 120 125

Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile Tyr Tyr Leu Met
 130 135 140

Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile Gln Asn Leu
 145 150 155 160

Gly Thr Lys Leu Ala Thr Gln Met Arg Lys Leu Thr Ser Asn Leu Arg
 165 170 175

Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro Tyr Met Tyr
 180 185 190

Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp Met Lys Thr
 195 200 205

Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr Leu Thr Asp
 Page 15

210

215

Gln Val Thr Arg Phe Asn Glu Glu Val Lys Lys Gln Ser Val Ser Arg
225 230 235 240

Asn Arg Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr
245 250 255

Val Cys Asp Glu Lys Ile Gly Trp Arg Asn Asp Ala Ser His Leu Leu
260 265 270

Val Phe Thr Thr Asp Ala Lys Thr His Ile Ala Leu Asp Gly Arg Leu
275 280 285

Ala Gly Ile Val Gln Pro Asn Asp Gly Gln Cys His Val Gly Ser Asp
290 295 300

Asn His Tyr Ser Ala Ser Thr Thr Met Asp Tyr Pro Ser Leu Gly Leu
305 310 315 320

Met Thr Glu Lys Leu Ser Gln Lys Asn Ile Asn Leu Ile Phe Ala Val
325 330 335

Thr Glu Asn Val Val Asn Leu Tyr Gln Asn Tyr Ser Glu Leu Ile Pro
340 345 350

Gly Thr Thr Val Gly Val Leu Ser Met Asp Ser Ser Asn Val Leu Gln
355 360 365

Leu Ile Val Asp Ala Tyr Gly Lys Ile Arg Ser Lys Val Glu Leu Glu
370 375 380

Val Arg Asp Leu Pro Glu Glu Leu Ser Leu Ser Phe Asn Ala Thr Cys
385 390 395 400

Leu Asn Asn Glu Val Ile Pro Gly Leu Lys Ser Cys Met Gly Leu Lys
405 410 415

Ile Gly Asp Thr Val Ser Phe Ser Ile Glu Ala Lys Val Arg Gly Cys
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Pro Gln Glu Lys Glu Lys Ser Phe Thr Ile Lys Pro Val Gly Phe Lys
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Asp Ser Leu Ile Val Gln Val Thr Phe Asp Cys Asp Cys Ala Cys Gln
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Ala Gln Ala Glu Pro Asn Ser His Arg Cys Asn Asn Gly Asn Gly Thr
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Phe Glu Cys Gly Val Cys Arg Cys Gly Pro Gly Trp Leu Gly Ser Gln
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Cys Glu Cys Ser Glu Glu Asp Tyr Arg Pro Ser Gln Gln Asp Glu Cys
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Ser Pro Arg Glu Gly Gln Pro Val Cys Ser Gln Arg Gly Glu Cys Leu
 515 520 525

Cys Gly Gln Cys Val Cys His Ser Ser Asp Phe Gly Lys Ile Thr Gly
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Lys Tyr Cys Glu Cys Asp Asp Phe Ser Cys Val Arg Tyr Lys Gly Glu
 545 550 555 560

Met Cys Ser Gly His Gly Gln Cys Ser Cys Gly Asp Cys Leu Cys Asp
 565 570 575

Ser Asp Trp Thr Gly Tyr Tyr Cys Asn Cys Thr Thr Arg Thr Asp Thr
 580 585 590

Cys Met Ser Ser Asn Gly Leu Leu Cys Ser Gly Arg Gly Lys Cys Glu
 595 600 605

Cys Gly Ser Cys Val Cys Ile Gln Pro Gly Ser Tyr Gly Asp Thr Cys
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Glu Lys Cys Pro Thr Cys Pro Asp Ala Cys Thr Phe Lys Lys Glu Cys
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Val Glu Cys Lys Lys Phe Asp Arg Glu Pro Tyr Met Thr Glu Asn Thr
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Cys Asn Arg Tyr Cys Arg Asp Glu Ile Glu Ser Val Lys Glu Leu Lys
 660 665 670

Asp Thr Gly Lys Asp Ala Val Asn Cys Thr Tyr Lys Asn Glu Asp Asp
 675 680 685

Cys Val Val Arg Phe Gln Tyr Tyr Glu Asp Ser Ser Gly Lys Ser Ile
 690 695 700

Leu Tyr Val Val Glu Glu Pro Glu Cys Pro Lys Gly Pro Asp Ile Leu
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Val Val Leu Leu Ser Val Met Gly Ala Ile Leu Leu Ile Gly Leu Ala
 725 730 735

Ala Leu Leu Ile Trp Lys Leu Leu Ile Thr Ile His Asp Arg Lys Glu
 740 745 750

Phe Ala Lys Phe Glu Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala
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Tyr Arg Gly Thr
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 gaaa 64

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63

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Val	Leu	Phe	Thr	Ala	Leu	Tyr	Ala	Leu	Ile	Trp	Ala	Leu	Gly	Ala	Ala	
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Ala	Gly	Arg	Leu	Arg	His	Val	Leu	Ser	Leu	Ala	Leu	Ala	Gly	Leu	
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Leu	Leu	Leu	Leu	Val	Gly	Val	Pro	Val	Glu	Leu	Tyr	Ser	Phe	Val	Trp	
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Met	Tyr	Val	Ile	Cys	Trp 310	Leu	Pro	Tyr	His	Ala 315	Arg	Arg	Leu	Met	Tyr 320	
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Cys	Tyr	Val	Pro	Asp 325	Asp	Ala	Trp	Thr	Asp 330	Pro	Leu	Tyr	Asn	Phe 335	Tyr	
cac	tac	ttc	tac	atg	gtg	acc	aac	aca	ctt	ttc	tac	gtc	agc	tca	gct	1056
His	Tyr	Phe	Tyr 340	Met	Val	Thr	Asn	Thr 345	Leu	Phe	Tyr	Val	Ser 350	Ser	Ala	

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Phe	Leu	Glu	Ala	Val	Ser	Ser	Leu	Cys	Gly	Glu	His	His	Pro	Met	Lys	
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Arg	Leu	Pro	Pro	Lys	Pro	Gln	Ser	Pro	Thr	Leu	Met	Asp	Thr	Ala	Ser	
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<400> 17

Met	Glu	Thr	Ser	Ser	Pro	Arg	Pro	Pro	Arg	Pro	Ser	Ser	Asn	Pro	Gly	
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			20					25					30			
Val	Leu	Phe	Thr	Ala	Leu	Tyr	Ala	Leu	Ile	Trp	Ala	Leu	Gly	Ala	Ala	
		35					40					45				
Gly	Asn	Ala	Leu	Ser	Val	His	Val	Val	Leu	Lys	Ala	Arg	Ala	Gly	Arg	
	50					55					60					
Ala	Gly	Arg	Leu	Arg	His	His	Val	Leu	Ser	Leu	Ala	Leu	Ala	Gly	Leu	
65					70				75						80	
Leu	Leu	Leu	Leu	Val	Gly	Val	Pro	Val	Glu	Leu	Tyr	Ser	Phe	Val	Trp	
				85					90					95		
Phe	His	Tyr	Pro	Trp	Val	Phe	Gly	Asp	Leu	Gly	Cys	Arg	Gly	Tyr	Tyr	
			100					105					110			
Phe	Val	His	Glu	Leu	Cys	Ala	Tyr	Ala	Thr	Val	Leu	Ser	Val	Ala	Gly	
		115					120					125				
Leu	Ser	Ala	Glu	Arg	Cys	Leu	Ala	Val	Cys	Gln	Pro	Leu	Arg	Ala	Arg	
	130					135					140					
Ser	Leu	Leu	Thr	Pro	Arg	Arg	Thr	Arg	Trp	Leu	Val	Ala	Leu	Ser	Trp	
145					150					155					160	

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Ala Ala Ser Leu Gly Leu Ala Leu Pro Met Ala Val Ile Met Gly Gln
165 170 175

Lys His Glu Leu Glu Thr Ala Asp Gly Glu Pro Glu Pro Ala Ser Arg
180 185 190

Val Cys Thr Val Leu Val Ser Arg Thr Ala Leu Gln Val Phe Ile Gln
195 200 205

Val Asn Val Leu Val Ser Phe Val Leu Pro Leu Ala Leu Thr Ala Phe
210 215 220

Leu Asn Gly Val Thr Val Ser His Leu Leu Ala Leu Cys Ser Gln Val
225 230 235 240

Pro Ser Thr Ser Thr Pro Gly Ser Ser Thr Pro Ser Arg Leu Glu Leu
245 250 255

Leu Ser Glu Glu Gly Leu Leu Ser Phe Ile Val Trp Lys Lys Thr Phe
260 265 270

Ile Gln Gly Gly Gln Val Ser Leu Val Arg His Lys Asp Val Arg Arg
275 280 285

Ile Arg Ser Leu Gln Arg Ser Val Gln Val Leu Arg Ala Ile Val Val
290 295 300

Met Tyr Val Ile Cys Trp Leu Pro Tyr His Ala Arg Arg Leu Met Tyr
305 310 315 320

Cys Tyr Val Pro Asp Asp Ala Trp Thr Asp Pro Leu Tyr Asn Phe Tyr
325 330 335

His Tyr Phe Tyr Met Val Thr Asn Thr Leu Phe Tyr Val Ser Ser Ala
340 345 350

Val Thr Pro Leu Leu Tyr Asn Ala Val Ser Ser Ser Phe Arg Lys Leu
355 360 365

Phe Leu Glu Ala Val Ser Ser Leu Cys Gly Glu His His Pro Met Lys
370 375 380

Arg Leu Pro Pro Lys Pro Gln Ser Pro Thr Leu Met Asp Thr Ala Ser
385 390 395 400

Gly Phe Gly Asp Pro Pro Glu Thr Arg Thr
405 410

<210> 18
 <211> 65
 <212> DNA
 <213> Synthetic DNA

<220>
 <221> misc_feature
 <222> (1)..(65)
 <223> Functional sequence of neurotensin receptor used for siRNA

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 gatcccgta tgacttttgg acagtcttca agagagactg tccaaaagtc ataatttttt 60
 ggaaa 65

<210> 19
 <211> 14
 <212> PRT
 <213> West Nile Virus

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> Xaa can be any naturally occurring amino acid

<400> 19
 Ser Ile Pro Lys Leu Glu Ile Ala Gly Xaa Phe Lys Asp Leu
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<210> 20
 <211> 1520
 <212> DNA
 <213> West Nile Virus

<220>
 <221> misc_feature
 <222> (1)..(11)
 <223> Primer sequence

<220>
 <221> CDS
 <222> (12)..(1520)
 <223> Sequence coding for the Domain III portion of the Envelope protein

<400> 20
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 Phe Asn Cys Leu Gly Met Ser Asn Arg Asp Phe Leu Glu
 1 5 10

gga gtg tct gga gct aca tgg gtt gat ctg gta ctg gaa gga gac agt 98
 Gly Val Ser Gly Ala Thr Trp Val Asp Leu Val Leu Glu Gly Asp Ser
 15 20 25

tgt gtg acc ata atg tca aaa gac aag cca acc att gat gtc aaa atg 146
 Page 23

Cys 30	Val	Thr	Ile	Met	Ser 35	Lys	Asp	Lys	Pro	Thr 40	Ile	Asp	Val	Lys	Met 45	
atg Met	aac Asn	atg Met	gaa Glu	gca Ala 50	gct Ala	aat Asn	ctc Leu	gca Ala	gat Asp 55	gtg Val	cgt Arg	agc Ser	tac Tyr	tgc Cys 60	tac Tyr	194
tta Leu	gct Ala	tcg Ser	gtc Val 65	agt Ser	gat Asp	ctg Leu	tca Ser	aca Thr 70	aaa Lys	gcc Ala	gcg Ala	tgt Cys 75	cca Pro	acc Thr	atg Met	242
ggt Gly	gaa Glu	gct Ala 80	cac His	aac Asn	gag Glu	aaa Lys	aga Arg 85	gcc Ala	gac Asp	cct Pro	gcc Ala	ttt Phe 90	gtt Val	tgc Cys	aag Lys	290
caa Gln	ggc Gly 95	gtc Val	gta Val	gac Asp	aga Arg	gga Gly 100	tgg Trp	ggg Gly	aat Asn	gga Gly	tgc Cys 105	gga Gly	ctg Leu	ttt Phe	gga Gly	338
aag Lys 110	ggg Gly	agc Ser	att Ile	gac Asp	aca Thr 115	tgt Cys	gca Ala	aag Lys	ttt Phe	gcc Ala 120	tgt Cys	aca Thr	acc Thr	aag Lys	gca Ala 125	386
act Thr	ggt Gly	tgg Trp	att Ile	atc Ile 130	cag Gln	aag Lys	gaa Glu	aac Asn	atc Ile 135	aag Lys	tac Tyr	gag Glu	gtt Val	gcc Ala 140	ata Ile	434
ttt Phe	gtg Val	cat His	ggc Gly 145	ccg Pro	acg Thr	act Thr	gtc Val	gaa Glu 150	tca Ser	cat His	ggc Gly	aat Asn	tat Tyr 155	tca Ser	aca Thr	482
cag Gln	ata Ile	ggg Gly 160	gct Ala	acc Thr	caa Gln	gca Ala	gga Gly 165	agg Arg	ttc Phe	agc Ser	ata Ile	act Thr 170	cca Pro	tcg Ser	gca Ala	530
cca Pro	tcc Ser 175	tac Tyr	acg Thr	ctg Leu	aag Lys	ttg Leu 180	ggt Gly	gag Glu	tat Tyr	ggt Gly	gag Glu 185	gtc Val	aca Thr	gtt Val	gac Asp	578
tgt Cys 190	gag Glu	cca Pro	cgg Arg	tca Ser	gga Gly 195	ata Ile	gac Asp	act Thr	agc Ser	gct Ala 200	tac Tyr	tac Tyr	gtt Val	atg Met	tca Ser 205	626
gtg Val	ggt Gly	gcg Ala	aag Lys	tcc Ser 210	ttc Phe	ttg Leu	gtt Val	cac His	cga Arg 215	gaa Glu	tgg Trp	ttt Phe	atg Met	gac Asp 220	ctg Leu	674
aac Asn	ctt Leu	cca Pro	tgg Trp 225	agt Ser	agc Ser	gct Ala	gga Gly	agc Ser 230	aca Thr	acg Thr	tgg Trp	agg Arg	aac Asn 235	cgg Arg	gaa Glu	722
aca Thr	ctg Leu	atg Met 240	gag Glu	ttt Phe	gaa Glu	gaa Glu	cct Pro 245	cat His	gcc Ala	acc Thr	aaa Lys	caa Gln 250	tct Ser	gtc Val	gta Val	770
gct Ala	cta Leu 255	ggg Gly	tcg Ser	cag Gln	gaa Glu	ggt Gly 260	gcc Ala	ttg Leu	cac His	caa Gln	gct Ala 265	ctg Leu	gct Ala	gga Gly	gca Ala	818
att Ile 270	cct Pro	gtt Val	gag Glu	ttc Phe	tca Ser 275	agc Ser	aac Asn	act Thr	gtg Val	aag Lys 280	ttg Leu	aca Thr	tca Ser	gga Gly	cat His 285	866

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ctg aag tgt agg gtg aag atg gag aag ttg cag ctg aag gga aca aca	914
Leu Lys Cys Arg Val Lys Met Glu Lys Leu Gln Leu Lys Gly Thr Thr	
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tat ggt gta tgc tca aaa gca ttc aaa ttc gct agg act ccc gct gac	962
Tyr Gly Val Cys Ser Lys Ala Phe Lys Phe Ala Arg Thr Pro Ala Asp	
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act ggt cat gga acg gtg gtg ctg gaa ctg cag tat acc gga aaa gac	1010
Thr Gly His Gly Thr Val Val Leu Glu Leu Gln Tyr Thr Gly Lys Asp	
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ggg cct tgc aaa gtg ccc att tct tct gtg gct tcc ctg aac gac ctt	1058
Gly Pro Cys Lys Val Pro Ile Ser Ser Val Ala Ser Leu Asn Asp Leu	
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	340
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aca ccc gtt gga agg ctg gtg act gtg aat cca ttt gtg tct gtg gct	1106
Thr Pro Val Gly Arg Leu Val Thr Val Asn Pro Phe Val Ser Val Ala	
	350
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acg gcc aac tcg aag gtt ttg att gaa ctc gaa ccc ccg ttt agt gac	1154
Thr Ala Asn Ser Lys Val Leu Ile Glu Leu Glu Pro Pro Phe Ser Asp	
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	375
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tct tac atc gtg gtg ggg aga gga gaa cag cag ata aac cac cac tgg	1202
Ser Tyr Ile Val Val Gly Arg Gly Glu Gln Gln Ile Asn His His Trp	
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cac aaa tct ggg agc agt att gga aag gct ttc acc act aca ctc aga	1250
His Lys Ser Gly Ser Ser Ile Gly Lys Ala Phe Thr Thr Thr Leu Arg	
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	405
	410
gga gct caa cga ctt gca gct ctt gga gac act gcc tgg gat ttt gga	1298
Gly Ala Gln Arg Leu Ala Ala Leu Gly Asp Thr Ala Trp Asp Phe Gly	
	415
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tca gtc gga ggg gtt ttc acc tcg gta ggg aaa gcc ata cac caa gtt	1346
Ser Val Gly Gly Val Phe Thr Ser Val Gly Lys Ala Ile His Gln Val	
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ttt gga gga gcc ttt aga tca ctc ttt gga ggg atg tcc tgg atc aca	1394
Phe Gly Gly Ala Phe Arg Ser Leu Phe Gly Gly Met Ser Trp Ile Thr	
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	455
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cag ggg ctt ctg gga gct ctt ctg ctg tgg atg gga att aac gcc cgt	1442
Gln Gly Leu Leu Gly Ala Leu Leu Leu Trp Met Gly Ile Asn Ala Arg	
	465
	470
	475
gac agg tca att gct atg acg ttc ctt gcg gtt gga gga gtc ttg ctc	1490
Asp Arg Ser Ile Ala Met Thr Phe Leu Ala Val Gly Gly Val Leu Leu	
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Phe Leu Ser Val Asn Val His Ala Gly Ser	
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<210> 21
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 Ile Met Ser Lys Asp Lys Pro Thr Ile Asp Val Lys Met Met Asn Met
 35 40 45
 Glu Ala Ala Asn Leu Ala Asp Val Arg Ser Tyr Cys Tyr Leu Ala Ser
 50 55 60
 Val Ser Asp Leu Ser Thr Lys Ala Ala Cys Pro Thr Met Gly Glu Ala
 65 70 75 80
 His Asn Glu Lys Arg Ala Asp Pro Ala Phe Val Cys Lys Gln Gly Val
 85 90 95
 Val Asp Arg Gly Trp Gly Asn Gly Cys Gly Leu Phe Gly Lys Gly Ser
 100 105 110
 Ile Asp Thr Cys Ala Lys Phe Ala Cys Thr Thr Lys Ala Thr Gly Trp
 115 120 125
 Ile Ile Gln Lys Glu Asn Ile Lys Tyr Glu Val Ala Ile Phe Val His
 130 135 140
 Gly Pro Thr Thr Val Glu Ser His Gly Asn Tyr Ser Thr Gln Ile Gly
 145 150 155 160
 Ala Thr Gln Ala Gly Arg Phe Ser Ile Thr Pro Ser Ala Pro Ser Tyr
 165 170 175
 Thr Leu Lys Leu Gly Glu Tyr Gly Glu Val Thr Val Asp Cys Glu Pro
 180 185 190
 Arg Ser Gly Ile Asp Thr Ser Ala Tyr Tyr Val Met Ser Val Gly Ala
 195 200 205
 Lys Ser Phe Leu Val His Arg Glu Trp Phe Met Asp Leu Asn Leu Pro
 210 215 220
 Trp Ser Ser Ala Gly Ser Thr Thr Trp Arg Asn Arg Glu Thr Leu Met
 225 230 235 240
 Glu Phe Glu Glu Pro His Ala Thr Lys Gln Ser Val Val Ala Leu Gly
 245 250 255

Ser Gln Glu Gly Ala Leu His Gln Ala Leu Ala Gly Ala Ile Pro Val
 260 265 270
 Glu Phe Ser Ser Asn Thr Val Lys Leu Thr Ser Gly His Leu Lys Cys
 275 280 285
 Arg Val Lys Met Glu Lys Leu Gln Leu Lys Gly Thr Thr Tyr Gly Val
 290 295 300
 Cys Ser Lys Ala Phe Lys Phe Ala Arg Thr Pro Ala Asp Thr Gly His
 305 310 315 320
 Gly Thr Val Val Leu Glu Leu Gln Tyr Thr Gly Lys Asp Gly Pro Cys
 325 330 335
 Lys Val Pro Ile Ser Ser Val Ala Ser Leu Asn Asp Leu Thr Pro Val
 340 345 350
 Gly Arg Leu Val Thr Val Asn Pro Phe Val Ser Val Ala Thr Ala Asn
 355 360 365
 Ser Lys Val Leu Ile Glu Leu Glu Pro Pro Phe Ser Asp Ser Tyr Ile
 370 375 380
 Val Val Gly Arg Gly Glu Gln Gln Ile Asn His His Trp His Lys Ser
 385 390 395 400
 Gly Ser Ser Ile Gly Lys Ala Phe Thr Thr Thr Leu Arg Gly Ala Gln
 405 410 415
 Arg Leu Ala Ala Leu Gly Asp Thr Ala Trp Asp Phe Gly Ser Val Gly
 420 425 430
 Gly Val Phe Thr Ser Val Gly Lys Ala Ile His Gln Val Phe Gly Gly
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 Ala Phe Arg Ser Leu Phe Gly Gly Met Ser Trp Ile Thr Gln Gly Leu
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 Ile Ala Met Thr Phe Leu Ala Val Gly Gly Val Leu Leu Phe Leu Ser
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 Val Asn Val His Ala Gly Ser

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